



Section 1. Product and Company Identification.

1.1 Model Number; SAC12000 v2
1.2 Description; Air Conditioner/Dehumidifier/Heater 12,000Btu/hr
 Refrigerant: 620g

1.3 Manufacturer;

Sealey Group.
 Kempson Way,
 Bury St. Edmunds,
 Suffolk.
 IP32 7AR

1.4 Emergency telephone number; 44 (0) 1284 757 500 (Office Hours)

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Section 2. Hazards Identification.

Gas is hermetically sealed and does not present a hazard under normal conditions of use.
 Inappropriate handling and / or use can cause gas to leak.

Inhalation: Inhalation of vapour is harmful and can cause unconsciousness.

Section 3. Substances.

3.1 Chemical Name (substance)	3.1 CAS No.	3.2 Concentration Volume	Classification	
			Hazard Class & Category Code	Hazard Statements ¹
Difluoromethane	75-10-5	50%	Not classified	-
Pentafluoroethane	354-33-6	50%	Not classified	-

¹For full text of Phrases and Statements, see Section 16.



Section 4. First Aid Measures.

4.1 Description of first aid measures

Inhalation

If inhaled, immediately remove person to fresh air.
If breathing problems persist, call a physician.

Skin Contact

Flush area with lukewarm water.
If frostbite has occurred, call a physician.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If problems persist, call a physician.

Ingestion

Not a primary route of exposure.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

Section 5. Fire Fighting Measures.

5.1. Extinguishing media

Water spray, water fog, dry chemical, alcohol foam, carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Toxic gases or particles may be formed during combustion.

Hazardous decomposition products include: Carbon dioxide, carbon monoxide, hydrogen fluoride.

These products may cause severe eye, nose, throat and lung irritation or toxic effects.

5.3. Advice for fire-fighters

No data available.



Section 6. Accidental Release Measures.

6.1. Personal precautions, protective equipment and emergency procedures
See section 8 for personal protective equipment.

6.2. Environmental precautions
No data available.

6.3. Methods and material for containment and cleaning up
No data available.

6.4. Reference to other sections
See Section 7 for information on Safe Handling
See Section 8 for information of Personal Protective Equipment.
See Section 13 for information on disposal.

Section 7. Handling and Storage.

7.1. Precautions for safe handling
Avoid contact with refrigerant.

7.2. Conditions for safe storage, including any incompatibilities
No data available.

7.3. Specific end use(s)
Intended for use as the refrigerant for the Model Number identified in 1.1 with Description stated in 1.2.

Section 8. Exposure Controls/Personal Protection.

8.1. Control parameters
In the event of leakage:
Ventilate the area.

8.2. Exposure controls
The use of Personal Protective Equipment (PPE) is not necessary under conditions of normal use.
In case of leakage, ensure that the following Personal Protective Equipment (PPE) is used.

Eye/Face Protection
Chemical grade full face shield

Skin Protection
Nitrile gloves.
Appropriate Personal Protection with long sleeves and long trousers.

Respiratory Protection
Self-contained breathing apparatus.



Section 9. Physical and Chemical Properties.

9.1. Information on basic physical and chemical properties

The following information is not a technical specification or sales specification.

(a) Appearance:	Liquefied gas - Colourless.
(b) Odour:	Faint ether-like odour.
(c) Odour threshold;	No data available.
(d) pH:	No data available.
(e) Melting point/freezing point;	No data available.
(f) Initial boiling point and boiling range;	- 52.8
(g) Flash point;	No data available.
(h) Evaporation rate;	No data available.
(i) Flammability (solid, gas);	No data available.
(j) Upper/lower flammability or explosive limits;	No data available.
(k) Vapour pressure;	1.65 MPa at 25°C
(l) Vapour density;	2.5 (air = 1)
(m) Relative density;	No data available.
(n) Solubility (ies);	0.56/100g (water) @25°C
(o) Partition coefficient: n-octanol/water;	No data available.
(p) Auto-ignition temperature;	No data available.
(q) Decomposition temperature;	No data available.
(r) Viscosity;	No data available.
(s) Explosive properties;	No data available.
(t) Oxidising properties.	No data available.

9.2 Other information No data available.

Section 10. Stability and Reactivity.

10.1. Reactivity	No data available.
10.2. Chemical stability	Stable at room temperature.
10.3. Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4. Conditions to avoid	The product is unstable at high temperatures.
10.5. Incompatible materials	Alkali or earth metals, finely powdered metals (aluminium, magnesium, zinc) and alloys containing more than 2% magnesium.
10.6. Hazardous decomposition products	Toxic gases or particles may be formed during combustion. Hazardous decomposition products include: Carbon dioxide, carbon monoxide, hydrogen fluoride. These products may cause severe eye, nose, throat and lung irritation or toxic effects.

Section 11. Toxicological Information.

11.1. Information on toxicological effects

No data available.



Section 12. Ecological Information.

12.1. Toxicity	No data available.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	No data available.
12.6. Other adverse effects	No data available.

Section 13. Disposal Considerations.

13.1. Waste treatment methods

Dispose of in accordance with local authority regulations.

Section 14. Transport Information.

ADR. International Carriage of Dangerous Goods by Road.

14.1. UN number	UN 2857
14.2. Name and Description	Refrigerating machines containing non-flammable, non-toxic gases or ammonia solutions

Special Provision 119

Refrigerating machines include machines or other appliances which have been designed for the specific purpose of keeping food or other items at a low temperature in an internal compartment, and air conditioning units.

Refrigerating machines and refrigerating machine components are not subject to the provisions of ADR if they contain less than 12 kg of gas in Class 2, group A or O according to 2.2.2.1.3, or if they contain less than 12 litres ammonia solution (UN No.2672).

IATA. International Air Transport Association.

14.1. UN number	UN 2857
14.2. UN Proper Shipping Name/Description	Refrigerating machines containing non-flammable, non-toxic, liquefied gas or ammonia solutions

Special Provision A26 (119).

Refrigerating machines include air conditioning units and machines or other appliances which have been designed for the specific purpose of keeping food or other items at low temperature in an internal compartment. Refrigerating machines and refrigerating machine components are considered not subject to these Regulations if containing less than 12 kg of gas in Division 2.2 or if containing less than 12 L ammonia solution (UN 2672).

IMDG. International Maritime Dangerous Goods.

14.1. UN number	UN 2857
14.2. UN proper shipping name	Refrigerating machines containing non-flammable, non-toxic gases or ammonia solutions

Special Provision 119.

Refrigerating machines and refrigerating-machinery components including machines or other appliances which have been designed for the specific purpose of keeping food or other items at a low temperature in an internal compartment, and air-conditioning units. Refrigerating machines and refrigerating-machine components are not subject to the provisions of this Code if they contain less than 12 kg of gas in class 2.2 or less than 12 L of ammonia solution (UN 2672).



Section 15. Regulatory Information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 No data available.

15.2. Chemical safety assessment
 No data available.

Section 16. Additional Information.

Full text of Phrases and Statements used in Section 3;
 Not applicable.

The above information is believed to be accurate and represents the best information currently available.

No warranty is expressed or implied by the above information.

We assume no liability resulting from use of the above information.

The end user should conduct their own investigations to determine the suitability of the above information for their particular purpose.

Issue level	Date	Revisions
1	11/10/18	First issue.

End of Safety Data Sheet.